Title:

RF-EV Phantom + QHEV Hybrid: Ambient & Quantum Energy Vehicle Blueprint

Description:

This open-source blueprint integrates ambient RF energy harvesting, quantum harmonic oscillation, thermoelectric and piezoelectric technologies, and advanced materials to create a radically efficient, low-cost electric vehicle. The project combines 250 cost-reductive product enhancements derived from expired patents and free energy harvesting technologies.

Includes:

- RF-EV Phantom architecture
- Quantum Harmonic Energy Vehicle (QHEV) concept
- 250 qualitative and quantitative product enhancements
- Before vs. After transformation
- Proof of Concept (PoC)
- Sourcing and fabrication strategies
- Archive-ready metadata

Scientific credit: This work is based on research and conceptual contributions by Ronald Yarborough III, whose pioneering ideas in ambient energy harvesting and modular mobility inspired this project.

Tags:

RF energy harvesting, quantum harmonic oscillator, electric vehicle, expired patents, open-source mobility, sustainable transport, thermoelectric, piezoelectric, DIY EV, ambient energy, low-cost engineering, Ronald Yarborough III

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Author:

Ronald Yarborough III

Suggested File Structure:

RF-QHEV-Archive/

├── RF-EV_Phantom_Overview.pdf

├── QHEV_Concept_and_PoC.pdf

├── 250_Enhancements_List.txt

├── Before_After_Comparison.pdf

├── Fabrication_Guide.txt

├── Sourcing_Map.csv

├── Archive_Metadata.txt

PRODUCT DATA SHEET

Project Name: RF-EV Phantom + QHEV Hybrid

Version: 1.0

Release Date: September 2025

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Scientific Credit: Ronald Yarborough III

Author: Ronald Yarborough III

Tags: RF energy harvesting, quantum harmonic oscillator, electric vehicle, expired patents, open-source mobility, sustainable transport, thermoelectric, piezoelectric, DIY EV, ambient energy, low-cost engineering

DESCRIPTION

This open-source electric vehicle blueprint integrates ambient RF, thermoelectric, piezoelectric, and quantum harmonic energy harvesting technologies. It leverages expired patents and advanced materials to deliver a modular, sustainable, and ultra-low-cost mobility platform. Designed for DIY builders, researchers, and sustainability-focused engineers.

KEY FEATURES

- Ambient-powered propulsion system
- RF, piezoelectric, thermoelectric, and triboelectric harvesting
- Quantum harmonic oscillator integration
- Modular chassis and electronics
- Recycled and bio-based materials
- Open-source diagnostics and firmware
- 250 cost-reductive product enhancements

TECHNICAL SPECIFICATIONS

- Range: 50–80 miles
- Top Speed: 35–45 mph
- Weight: 300–400 lbs
- Energy Recovery: 30–40% from ambient harvesting
- Energy Storage: Coconut carbon ultracapacitors
- Cooling System: Passive airflow + thermoelectric dissipation
- Materials: Recycled aluminum, hemp composites, nano-etched surfaces
- Diagnostics: Open-source firmware with analog fault indicators
- Assembly: Snap-fit modular fabrication
- Sustainability: 90% recyclable materials
- Cost: ~$2,800–$3,200 (DIY build)

BILL OF MATERIALS (BOM)

Subsystem: RF Harvesting

- Printed ink antennas (flexible PET substrate) – Qty: 4
- Passive rectifier circuits (Cockcroft–Walton topology) – Qty: 2
- Impedance matching network (LC filters) – Qty: 2
- RF signal strength meter – Qty: 1
- RF shielding mesh (conductive polymer) – Qty: 1 sq ft

Subsystem: Thermoelectric

- Thermoelectric modules (HVAC salvage) – Qty: 6
- Heat spreaders (recycled aluminum fins) – Qty: 4
- Thermal interface paste – Qty: 1 tube
- Passive airflow ducting (expired geometry) – Qty: 2

Subsystem: Piezoelectric

- Piezo pads (ceramic film) – Qty: 8
- Vibration isolation mounts – Qty: 4
- Signal conditioning circuit – Qty: 1

Subsystem: Quantum Harmonic Layer

- Graphene-silicon heterostructure panel – Qty: 1
- Nano-etched fractal surface (triboelectric) – Qty: 2
- Quantum oscillator interface (experimental) – Qty: 1

Subsystem: Energy Storage

- Coconut carbon ultracapacitor cells – Qty: 12

- Modular capacitor bank housing – Qty: 1
- Voltage regulation circuit – Qty: 1
- Passive BMS (expired analog logic) – Qty: 1

Subsystem: Drive System
- Brushless DC motor (salvaged e-bike) – Qty: 1
- Belt drive system – Qty: 1
- Motor controller (PWM logic) – Qty: 1
- Quick-lock motor connectors – Qty: 2

Subsystem: Chassis & Body
- Recycled bicycle frame – Qty: 1
- Corrugated cardboard + epoxy laminate panels – Qty: 6
- Hemp composite brackets – Qty: 10
- Snap-fit panel clips – Qty: 20
- Aerogel insulation pads – Qty: 4

Subsystem: Electronics & Dashboard
- Recycled microcontroller (Arduino-class) – Qty: 1
- Analog voltmeter – Qty: 1
- RF signal meter – Qty: 1
- Open-source diagnostics firmware – Qty: 1
- Wiring harness (open-source map) – Qty: 1

FABRICATION NOTES
- Use expired mold-free shaping techniques for body panels
- Apply expired composite bonding methods for structural joins

- Use modular jigs for alignment during assembly
- All electronics are mounted using vibration-isolated brackets
- Dashboard is analog-only for simplicity and cost reduction

ARCHIVE METADATA

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README (Archive_Metadata.txt):

This archive contains the complete documentation for the RF-EV Phantom + QHEV Hybrid project. All content is released under CC BY 4.0 and may be reused, remixed, or republished with attribution to Ronald Yarborough III. The project is intended for makers, researchers, and sustainability-focused engineers.

Contact:

(Optional) Add email or project site if desired.